

ABSTRACT OF THE DISCLOSURE

Method for controlling a drive motor of a positive displacement vacuum pump

A method for controlling a drive motor of a positive displacement vacuum pump comprises the following method steps: storing a curve (32) indicating a respective speed value n of the drive motor for inlet pressure values p , wherein the curve (32) comprises: an upper range (34) for inlet pressure values p larger than or equal to an upper limit pressure p_1 , with a single constant upper speed value n_1 being associated with said upper range (34), and an alteration range (36) for inlet pressure values p smaller than the upper limit pressure p_1 , wherein in the alteration range different speed values n_v are associated with the inlet pressure values p ; determining the inlet pressure value p ; determining the speed n associated with the inlet pressure value p in the curve (32); and operating the drive motor (20) at the determined speed n . By providing an alteration range the vacuum pump can always be operated at a speed which allows maximum effective suction capacity of the positive displacement pump.

(Fig. 2)